

Abstract

A minimum-configuration photometer capable of measuring both the wavelength characteristics and the optical spectral characteristics. The photometer includes an optical amplifier (10), a spectrometer (12) for taking out a specified wavelength band component from an amplified light, a coupler (14) for branching the specified wavelength band component to two directions, a photoswitch (20) having a first input terminal (22a), a second input terminal (22b), a first output terminal (24a), and a second output terminal (24b), and a photodetecting section (30) wherein the first input terminal (22a) is connected with one end of an article (2) being measured, the second input terminal (22b) is connected with the coupler (14), the first output terminal (24a) is connected with the photodetecting section (30), and the second output terminal (24b) is connected with the input side of the optical amplifier (10). The photoswitch (20) connects (1) the second input terminal (22b) with the second output terminal (24b), and connects the first input terminal (22a) with the first output terminal (24a) (wavelength characteristics measuring unit), or connects (2) the second input terminal (22b) with the first output terminal (24a), and connects the first input terminal (22a) with the second output terminal (24b) (spectral analyzer).